

Amendments to the Claims:

This listing of claims replaces all prior listings of claims:

Listing of Claims:

1. (Currently Amended) A method, comprising:

sending, from a mobile entity to a second network access entity, a message comprising a fast binding update message, the message including information for identifying a first network access entity comprising a gateway general packet radio service support node from a mobile entity to a second network access entity, wherein the information identifying the first network access entity enables the second network access entity to determine a global address for the first network access entity, wherein the global address of the first network access entity is not known to the mobile entity due to a move by the mobile entity from a previous network to a target network of the second network access entity, wherein the information comprises at least one of a link local address network identity associated with the first network access entity, a network identity associated with the previous network of the first network access entity, an access point name, an identity associated with an access point through which the mobile entity was connected to the first network access entity, and a link layer address of the mobile entity, wherein a global address of the first network access entity is not known to the mobile entity; and

handing over a connection of the mobile entity from the first network access entity to the second network access entity,

wherein the message is configured to enable the second network access entity to direct traffic to the first network access entity based on the information included in the

message, wherein the information is mapped, at the second network access entity, to the global address of the first network access entity.

2. (Currently Amended) The method according to claim 1, further comprising:
~~wherein the message is configured as a fast-binding update message, and~~
~~wherein the first network access entity is a gateway general packet radio service~~
~~support node;~~

identifying, in the second network access entity, whether the message received from the mobile entity is directed to the first network access entity by checking an address indicated in the message, and checking whether the address is globally routable.

3. (Previously Presented) The method according to claim 2, wherein the identifying comprises checking the address to determine whether the address is globally routable or not based on a prefix of the address.

4. (Canceled)

5. (Previously Presented) The method according to claim 1, wherein the sending comprises sending the message before de-establishing a connection between the mobile entity and the first network access entity.

6. (Previously Presented) The method according to claim 1, wherein the sending comprises sending the message after de-establishing the connection between the mobile entity and the first network access entity.

7. (Previously Presented) The method according to claim 1, further comprising:

receiving at the second network access entity a message from the first network access entity including the global address of the first network access entity.

8. (Previously Presented) The method according to claim 1, further comprising:

providing in the second network access entity a mapping table in which the information for identifying the first network access entity received from the mobile entity is mapped to a global address of the first network access entity.

9. (Canceled)

10. (Previously Presented) The method according to claim 1, further comprising:

sending a message including all or part of the information for identifying the first network access entity to a proxy; and

determining, using the proxy, an address of the first network access entity.

11. (Original) The method according to claim 10, further comprising:
forwarding, using the proxy, traffic between the second network access entity
and the first network access entity.

12. (Previously Presented) The method according to claim 1, further
comprising:
monitoring, using the mobile entity, attributes of a network of the first network
access entity in order to obtain the information for identifying the first network access
entity.

13. (Previously Presented) The method according to claim 10, further
comprising:
determining, using the second network access entity, an address of the proxy
based on the information for identifying the first network access entity received from the
mobile entity.

14. (Currently Amended Presented) A method, comprising:
forming a message for handing over a connection of a mobile entity from a first
network access entity to a second network access entity, wherein the message
comprises a fast binding update message including information for identifying the first
network access entity comprising a gateway general packet radio service support node,
wherein the information identifying the first network access entity enables the second
network access entity to determine a global address for the first network access entity,
wherein the global address of the first network access entity is not known to the mobile

entity due to a move by the mobile entity from a previous network to a target network of the second network access entity, wherein the information comprises a link local address associated with the first network access entity, a network identity associated with the previous network of the first network access entity, an access point name associated with an access point through which the mobile entity was connected to the first network access entity, and a link layer address of the mobile entity
a global address of the second network access entity is not known to the mobile entity;
and

sending, from the mobile entity to the second network access entity, the message including the information for identifying the second network access entity from the mobile entity to the first network access entity, wherein the message enables the first network access entity to direct traffic to the second network access entity.

15. (Previously Presented) The method according to claim 14, further comprising:

sending, a message including all or part of the information for identifying the second network access entity to a proxy; and

determining, using the proxy, an address of the second network access entity.

16. (Previously Presented) The method according to claim 15, further comprising:

forwarding, using the proxy, traffic between the first network access entity and the second network access entity.

17. (Previously Presented) The method according to claim 14, further comprising:

monitoring, using the mobile entity, attributes of a network of the second network access entity in order to obtain the information for identifying the second network access entity.

18. (Previously Presented) The method according to claim 15, further comprising:

determining, using the first network access entity, the address of the proxy based on the information for identifying the second network access entity received from the mobile entity.

19. (Previously Presented) The method according to claim 14, further comprising:

identifying, in the first network access entity, whether the message received from the mobile entity is directed to the second network access entity by checking an address indicated in the message, and checking whether the address is globally routable.

20. (Previously Presented) The method according to claim 19, wherein the identifying comprises checking the address to determine whether the address is globally routable or not based on a prefix of the address.

21. (Previously Presented) The method according to claim 14, wherein the sending comprises sending the message comprising a handover initiate message.

22. (Original) The method according to claim 14, wherein providing in the first network access entity a mapping table in which the information for identifying the second network access entity received from the mobile entity is mapped to a global address of the second network access entity.

23. (Previously Presented) The method according to claim 14, wherein the sending comprises sending the information for identifying the second network access entity comprising at least one parameter selected from at least one parameter as follows:

a target network identity,
a target access point name, and
an identity associated with an access point through which the mobile entity connects to the second network access entity.

24-40. (Cancelled)

41. (Currently Amended) An apparatus, comprising:
a processor, wherein the processor is configured to process data related to sending, from a mobile entity to a second network access entity, a message comprising a fast binding update message, the message including information for identifying a first

network access entity comprising a gateway general packet radio service support node, wherein the information identifying the first network access entity enables the second network access entity to determine a global address for the first network access entity, wherein the global address of the first network access entity is not known to the mobile entity due to a move by the mobile entity from a previous network to a target network of the second network access entity, wherein the information comprises a link local address associated with the first network access entity, a network identity associated with the previous network of the first network access entity, an access point name associated with an access point through which the mobile entity was connected to the first network access entity, and a link layer address of the mobile entity including information to identify a first network access entity to a second network access entity, wherein a connection of the apparatus is handed over from the first network access entity to the second network access entity, the message enables the second network access entity to direct traffic to the first network access entity, wherein a global address of the first network access entity is not known to the apparatus.

42. (Previously Presented) The apparatus according to claim 41, wherein the message is a fast binding update message.

43. (Previously Presented) The apparatus according to claim 41, wherein the information to identify the first network access entity comprises at least one of the following parameters:

old network identity associated with the first network access entity,

old access point name,
identity associated with the access point through which the apparatus was
connected to the first network access entity, and/or
a link layer address of the apparatus.

44. (Previously Presented) The apparatus according to claim 41, wherein the processor is further configured to monitor attributes of the network of the second network access entity in order to obtain information to identify the second network access entity.

45. (Currently Amended) An apparatus, comprising:
a processor configured to process data related to sending a message comprising a fast binding update message, the message including information for identifying a first network access entity comprising a gateway general packet radio service support node, wherein the information identifying the first network access entity enables the second network access entity to determine a global address for the first network access entity, wherein the global address of the first network access entity is not known to the mobile entity due to a move by the mobile entity from a previous network to a target network of the second network access entity, wherein the information comprises a link local address associated with the first network access entity, a network identity associated with the previous network of the first network access entity, an access point name associated with an access point through which the mobile entity was connected to the first network access entity, and a link layer address of the mobile entity

~~_including information to identify a second network access entity to a first network access entity, wherein a connection of the apparatus is handed over from the first network access entity to the second network access entity, the message enables the first network access entity to direct traffic to the second network access entity,~~

~~wherein a global address of the second network access entity is not known to the apparatus.~~

46. (Previously Presented) The apparatus according to claim 45, wherein the processor is configured to monitor attributes of the network of the second network access entity in order to obtain information to identify the second network access entity.

47. (Previously Presented) The apparatus according to claim 45, wherein the message is a handover initiate message.

48. (Previously Presented) The apparatus according to claim 45, wherein the information to identify the second network access entity comprises at least one of the following parameters:

a target network identity,
target access point name, or
identity associated with the access point through which the apparatus will be connected to the second network access entity.

49. (Currently Amended) A computer program product embodied on a non-transitory computer readable medium, the computer program product being configured to control a processor to perform a method comprising:

forming a message which enables a second network entity to direct traffic destined to a first network entity when a connection is handed over from the first network access entity to the second network access entity, wherein a global address of the first network access entity is not known to a mobile entity; and

sending the message including information to identify the first network access entity from the mobile entity to the second network access entity.

50. (Currently Amended) A computer program product embodied on a non-transitory computer readable medium, the computer program product being configured to control a processor to perform a method comprising:

forming a message which enables a first network entity to direct traffic destined to a second network entity when a connection is handed over from the first network access entity to the second network access entity, wherein the message comprises a fast binding update message including information for identifying the first network access entity comprising a gateway general packet radio service support node, wherein the information identifying the first network access entity enables the second network access entity to determine a global address for the first network access entity, wherein the global address of the first network access entity is not known to the mobile entity due to a move by the mobile entity from a previous network to a target network of the second network access entity, wherein the information comprises comprises a link local

address associated with the first network access entity, a network identity associated with the previous network of the first network access entity, an access point name associated with an access point through which the mobile entity was connected to the first network access entity, and a link layer address of the mobile entity a global address of the first network access entity is not known to a mobile entity; and

sending, from the mobile entity to the second network access entity, the message including the information to identify the second network access entity from the mobile entity to the first network access entity.

51. (Currently Amended) An apparatus, comprising:

a processor, wherein the processor is configured to:

process a received message from a mobile entity, the message comprising a fast binding update message including information for identifying the first network access entity comprising a gateway general packet radio service support node, wherein the information identifying the first network access entity enables the second network access entity to determine a global address for the first network access entity, wherein the global address of the first network access entity is not known to the mobile entity due to a move by the mobile entity from a previous network to a target network of the second network access entity, wherein the information comprises a link local address associated with the first network access entity, a network identity associated with the previous network of the first network access entity, an access point name associated with an access point through which the mobile entity was connected to the first network access entity, and a link layer address of the mobile entity including information to

~~identify a second network access entity to the first network access entity, wherein a
global address of the second network access entity is not known to the mobile entity;~~

and

use said message to direct traffic to the second network access entity.

Claims 52-54 (Canceled)